

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. - 3. (Canceled).

4. (Currently Amended) ~~An apparatus for converting~~ A multimedia intermediate device coupled to a first terminal and a second terminal through one or more telecommunications networks and configured to convert video bitstream data coded using a first hybrid video codec to second bitstream data coded using a second hybrid video codec, the ~~apparatus~~ multimedia intermediate device comprising:

- a. a video bitstream decoder disposed in a data path ahead of ~~a data~~ the second terminal and operative to decode the video bitstream data; ~~and~~
- b. an encoder coupled to the video bitstream decoder for re-encoding a plurality of macroblocks, wherein each of the plurality of macroblocks is re-encoded as an intra coded macroblock upon receipt of a ~~video-fast-update~~ video update request;
- c. a control unit coupled to the encoder; and
- d. a control port coupled to the control unit and configured to receive one or more control signals from the second terminal.

5. (Canceled).

6. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 4 wherein a first standard for the first hybrid video codec is the same as a second standard for the second hybrid video codec.

7. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 4 wherein the video bitstream decoder is operative to fully decode a frame before encoding an output frame.

8. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 4 wherein the video bitstream encoder only re-encodes selected macroblocks.

9. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 4 wherein the video bitstream decoder is operative to manipulate data in the Discrete Cosine Transform domain.

10. (Canceled).

11. (Currently Amended) A method for converting video bitstream data coded using a first hybrid video codec to second bitstream data coded using a second hybrid video codec, the method being performed using a multimedia intermediate device coupled to a first terminal and a second terminal through one or more telecommunications networks, the method comprising:

a. decoding the video bitstream data in a video bitstream decoder disposed in a data path ahead of ~~a data~~ the second terminal;

b. receiving a video update request; and

[[b]]c. re-encoding a plurality of macroblocks in a video bitstream encoder, wherein each of the plurality of macroblocks is re-encoded as an intra coded macroblock upon receipt of ~~a video fast update~~ the video update request.

12. (Canceled).

13. (Previously Presented) The method of claim 11 wherein a first standard for the first hybrid video codec is the same as a second standard for the second hybrid video codec.

14. (Previously Presented) The method of claim 11 wherein the video bitstream decoder is operative to fully decode a frame before encoding an output frame.

15. (Previously Presented) The method of claim 11 wherein the video bitstream decoder encoder only re-encodes selected macroblocks.

16. (Original) The method of claim 11 wherein the video bitstream decoder is operative to manipulate data in the Discrete Cosine Transform domain.

17. (Currently Amended) The method of claim 13 wherein a portion of the video bitstream data is copied to the second bitstream data, prior to receipt of the ~~video-fast-update~~ video update request.

18. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 4 wherein the ~~video-fast-update~~ video update request is received from the ~~data~~ second terminal.

19. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 18 wherein the ~~data~~ second terminal is a 3G-324M terminal.

20. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 18 wherein the ~~data~~ second terminal is in at least one of a packet-switched network or a circuit-switched network.

21. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 4 further comprising:

a media independent error detector coupled to the video bitstream decoder, wherein at least one of the media independent error detector and the video bitstream decoder is operative to detect errors in the video bitstream; and

a ~~fast~~ video update request unit operative to send a second ~~video-fast-update~~ video update request to a source of the video bitstream data when at least one of the bitstream syntax decoder or the video bitstream decoder detects one or more errors in the video bitstream data.

22. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 4 wherein a server is disposed in ~~[[the]]~~ a second data path ahead of the video bitstream decoder, the server being operative to transmit a portion of the video bitstream data from a ~~pre-encoded~~ encoded video bitstream data.

23. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 22 wherein the server is adapted to store the ~~pre-encoded~~ encoded video bitstream data at the server.

24. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 4 wherein the ~~data~~ second terminal is adapted to transmit the ~~video-fast-update~~ video update request in response to bit errors detected at the ~~data~~ second terminal.

25. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 4 wherein the first hybrid video codec is selected from the group consisting of H.261, H.263, H.264, and MPEG-4-video.

26. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 4 wherein the second hybrid video codec is selected from the group consisting of H.261, H.263, H.264, and MPEG-4-video.

27. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 4 wherein the ~~video-fast-update~~ video update request is a signal received from a second control module in ~~a gateway~~ the multimedia intermediate device.

28. (Currently Amended) The ~~apparatus~~ multimedia intermediate device of claim 6 wherein a portion of the video bitstream data is copied to the second bitstream data, prior to receipt of the ~~video-fast-update~~ video update request.

29. (Currently Amended) The method of claim 11 wherein the ~~video-fast-update~~ video update request is received from the ~~data~~ second terminal.

30. (Currently Amended) The method of claim 29 wherein the ~~data~~ second terminal is a 3G-324M terminal.

31. (Currently Amended) The method of claim 29 wherein the ~~video-fast-update~~ video update request is in response to bit errors detected at the ~~data~~ second terminal.

32. (Currently Amended) The method of claim 29 wherein the ~~data~~ second terminal is in at least one of a packet-switched network or a circuit-switched network.

33. (Previously Presented) The method of claim 11 wherein a portion of the video bitstream data is pre-encoded to provide a pre-encoded video bitstream data.

34. (Previously Presented) The method of claim 33 wherein the pre-encoded video bitstream data is stored on a server.

35. (Previously Presented) The method of claim 11 wherein the each of the plurality of re-encoded macroblocks forms a portion of an inter coded frame or an intra coded frame.

36. (Previously Presented) The method of claim 11 wherein the each of the plurality of re-encoded macroblocks forms an entirety of an intra coded frame.

37. (Previously Presented) The method of claim 11 further comprising:
re-encoding a further plurality of macroblocks, wherein each of the further plurality of macroblocks is re-encoded as an inter coded macroblock in a frame following a frame containing the plurality of macroblocks.

38. (Previously Presented) The method of claim 11 wherein the first hybrid video codec is selected from the group consisting of H.261, H.263, H.264 and MPEG-4-video.

39. (Previously Presented) The method of claim 38 wherein the second hybrid video codec is selected from the group consisting of H.261, H.263, H.264 and MPEG-4-video.

40. (Currently Amended) The method of claim 11 further comprising:
detecting one or more errors in the video bitstream at at least one of a media independent error detector or the video bitstream decoder; and
sending a second ~~video-fast-update~~ video update message to a source of the video bitstream data after detecting the one or more errors.

41. (Previously Presented) The method of claim 11 wherein the encoder performs a portion of the re-encoding by reusing information obtained from the video bitstream data.

42. (Previously Presented) The method of claim 41 wherein the information obtained from the video bitstream data comprises at least one of one or more motion vectors or one or more macroblock encoding types.

43. (Previously Presented) The method of claim 37 wherein one or more of the further plurality of macroblocks is coded with differences from one or more of the plurality of macroblocks.

44. (Previously Presented) The method of claim 37 further comprising:
re-encoding a second further plurality of macroblocks, wherein each of the second further plurality of macroblocks is re-encoded as an inter coded macroblock in a further frame following the frame containing the further plurality of macroblocks.

45. (Previously Presented) The method of claim 44 wherein:
one or more of the further plurality of macroblocks is coded with differences from one or more of the plurality of macroblocks; and
one or more of the second further plurality of macroblocks is coded with differences from one or more of the further plurality of macroblocks.

46. (Currently Amended) The method of claim 11 wherein the ~~video-fast-update~~ video update request is a signal received from a second control module in ~~a gateway~~ the multimedia intermediate device.

47. (New) The multimedia intermediate device of claim 4 wherein the video update request is an H.245 message.

48. (New) The multimedia intermediate device of claim 47 wherein the H.245 message is a VideoFastUpdate message.

49. (New) The multimedia intermediate device of claim 4 wherein the video update request is received at the control port.

50. (New) The multimedia intermediate device of claim 4 wherein the control port comprises an H.245 port.

51. (New) The multimedia intermediate device of claim 4 wherein the multimedia intermediate device comprises a video gateway.

52. (New) The multimedia intermediate device of claim 4 wherein the multimedia intermediate device comprises a multimedia gateway.

53. (New) The multimedia intermediate device of claim 4 wherein the multimedia intermediate device comprises a transcoding gateway.

54. (New) The multimedia intermediate device of claim 4 wherein the multimedia intermediate device comprises a multimedia terminating device.

55. (New) The multimedia intermediate device of claim 18 wherein the second terminal comprises a videotelephony terminal.

56. (New) The method of claim 11 further comprising transmitting an additional video update request to the first terminal.

57. (New) The method of claim 11 wherein the video update request is an H.245 message.

58. (New) The method of claim 57 wherein the H.245 message is a VideoFastUpdate message.

59. (New) The method of claim 11 wherein the video update request is a video-fast-update request.